NBC Doctrine Update

Mr. Dale Chapman

MAJ Mark Nakagawa

CPT Nicole Chupas

U.S. Army Chemical School

Fort Leonard Wood, MO

Agenda

- ☑ Mission Statement
- ☑ Organization
- ☑ Doctrine Overview
  - Joint Doctrine Development
  - Multi Service Doctrine Development
  - Army Doctrine Development
- ☑ Doctrinal Issues
- ☑ Initiatives
- ☑ Questions / Discussion

Doctrine Division Mission

The U.S. Army Chemical School Doctrine Division is responsible for Joint, Multiservice and Army doctrine development for operations related to NBC contamination avoidance, protection, and decontamination as well as smoke, flame and flame. The division revises and develops doctrine and training literature programs for both NBC staff officers at all levels of command and for chemical units supporting those commands from company to chemical brigade levels. The division also reviews doctrine from other proponents to ensure NBC and smoke are integrated and concepts are current. Coordinates USACMLS, TRADOC, and Army actions on both NATO and ABCA international standardization agreements dealing with NBC issues and ensures their accuracy and implementation of ratified agreements.

Doctrine Definition
TRADOC Reg 25-36

Doctrine is the fundamental principles by which military forces or elements thereof ***guide their actions*** *in support of national objectives*. These principles reflect the Army's collective wisdom regarding past, present, and future operations. They focus on *how to think about operations, not what to think*. Doctrine principles provide an authoritative guide for leaders and soldiers but still *provide freedom to adapt to circumstances.*

TACTICS, TECHNIQUES, and PROCEDURES

Tactics – Tactics is the employment of units in combat

Techniques – Techniques are the methods used by troops and/or commanders to perform assigned missions or functions, specifically the method of employing equipment and personnel.

Procedures – Procedures are the standard and detailed courses of action that describe how to perform a task– specifically, how soldiers perform a task.

Doctrine Division Organization

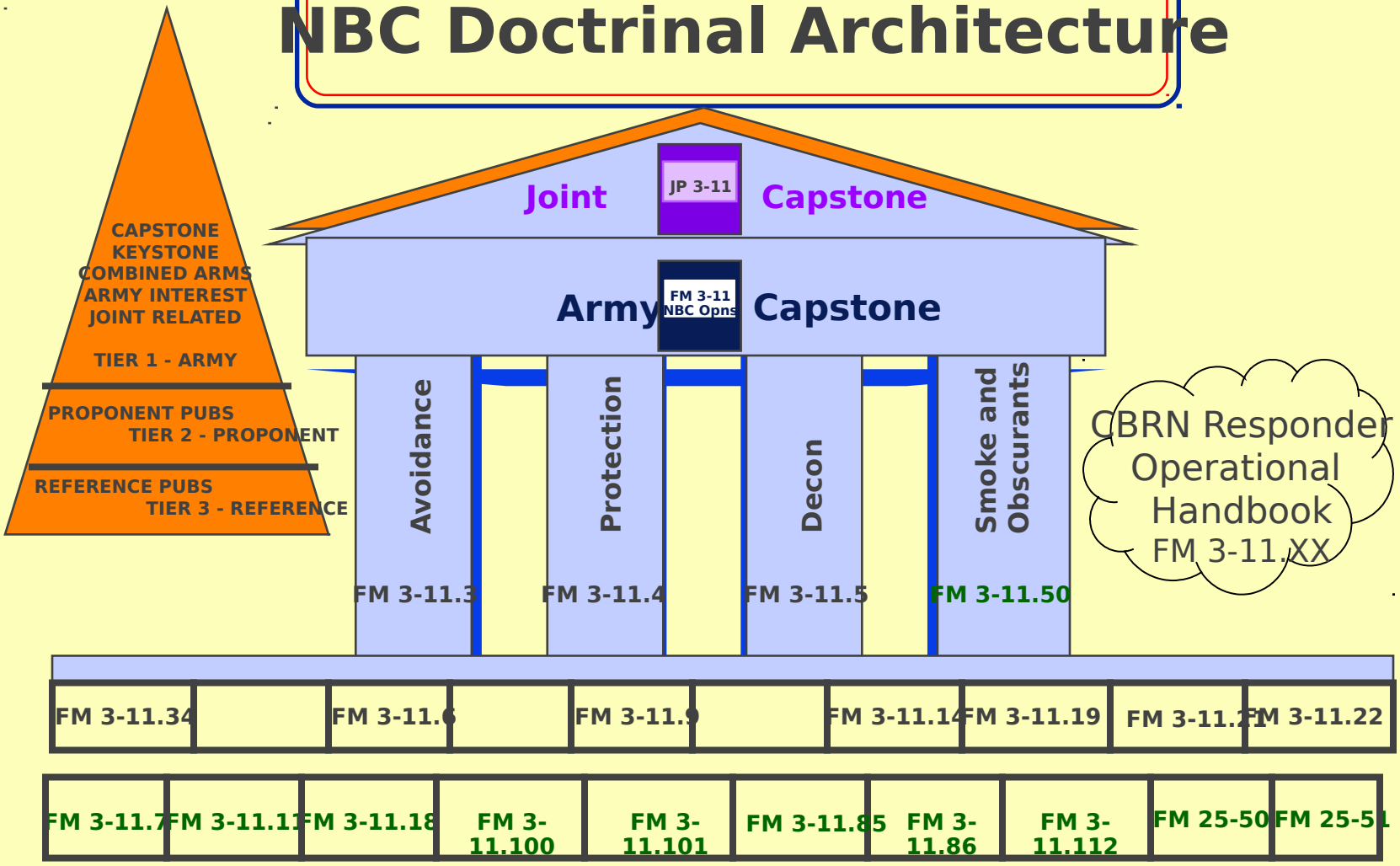
		Main Areas Of Responsibility
	(LTC Rod Murray)	
Doctrine Chief	Mr. Chapman	Joint Pubs International Programs
Deputy Snr Doctrine Writer	MAJ Nakagawa	Multiservice/Transformation
Doctrine Writer	CPT Chupas	Army Pubs & Bio Program/ Trends Reversal
Doctrine Writer	SFC Christman	Smoke & Fixed Sites/WMD-CST/ LST / RRT
Doctrine Writer(contractor)	Mr. Bascher	Decon
Doctrine Writer(contractor)	Ms. Gill	Biological Defense

BOTTOM LINE - WIDE RANGE OF EXPERIENCE

JRO CBRND MTTP Development Process

PHASE I Research & Definition	PHASE II Program Approval			PHASE III Program Development								PHASE IV Service Review & Comment			PHASE V Services Approval	
30-90 Days	60 Days			270 Days								90 Days			150 Days	
	Program Directive (PD)			Writer's (WD) & First Draft (FD)								Final Coordination Draft (FCD)			Signature Draft (SD)	
	15 Days	15 Days	30 Days	120 Days	30 Days	15 Days	5 Days	15 Days	60 Days	15 Days	5 Days	15 Days	60 Days	15 Days	90 Days	45 Days
Research, Assessments & Preparation of the Draft PD	Staffing for Service Comment	Contractor Revision	Staffing for Service Approval	Contractor Development of the WD	Services' SME Review & Comment on the WD	Contractor Incorporation of Comments	Preparation & Conduct of WD Working Group	Contractor Development of the FD	Services Review & Comment on the FD	Contractor Incorporation of Comments	Preparation & Conduct of FD Working Group	Contractor Development of the FCD	Services Review & Comment on the FCD	Contractor Incorporation of Comments	Final Editing & Preparation of the Camera Ready Copy	Final Staffing for Services' Approval & Signature

NBC Doctrinal Architecture



Warfighter Support/Warfighter Readiness Technical Base

Doctrinal Construct

Doctrine

Organizations

Facilities

Training

Sense

Information and Detection…

- Surveillance
- Detection
- Identification
- Monitoring
- Reconnaissance
- Sample Evacuation

Shield

Decontamination, Medical treatment / pretreatment…

Avoid:
- Reduce the threat
- Reduce Vulnerability
- Avoid Hazards

Protect:
-Medical Pretreatment
-Collective Protective Equip.
-Individual Protective Equip.

Shape

Warning and Protection…

-CBRN IPB
- Battle Management
- MOPP & vulnerability Analysis
- Chemical Unit orchestration
NBCWRS

-Vulnerability Analysis

-Chem Unit Coordination

Sustain

Restoration Operations

- Medical Treatment
- Decontamination
- Civil Affairs Integration

Personnel

Materiel

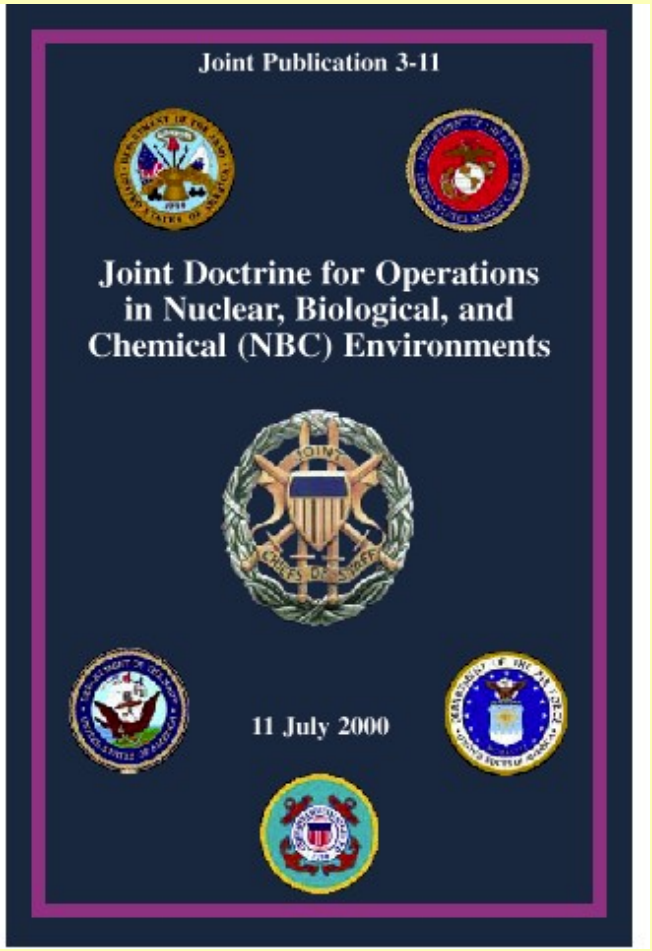
Leader Education

Doctrinal Applications

Publication	Subject	USA	USMC	USAF	USN
FM 3-11	NBC Defense Operations	✓	✓	✓	✓
FM 3-11.3	NBC Contamination Avoidance	✓	✓	×	×
FM 3-11.4	NBC Protection	✓	✓	✓	✓
FM 3-11.34	Fixed Site Protection	✓	✓	✓	✓
FM 3-11.5	NBC Decontamination	✓	✓	×	×
FM 3-11.6	Field Behavior of NBC Agents	✓	✓	✓	×
FM 3-11.9	Potential Military C/B Agents	✓	×	✓	✓
FM 3-11.11	Flame/Riot Control/Herbicide Ops	✓	✓		
FM 3-11.14	NBC Vulnerability Analysis	✓	✓	×	×
FM 3-11.19	NBC Reconnaissance	✓	✓	×	×
FM 3-11.21	NBC Aspects of Consequence Man	✓	✓	×	×
FM 3-11.86	Biological Defense MTTP	✓	✓	✓	✓

✓ **Approved by Service**
× **Potential For Use by Service**

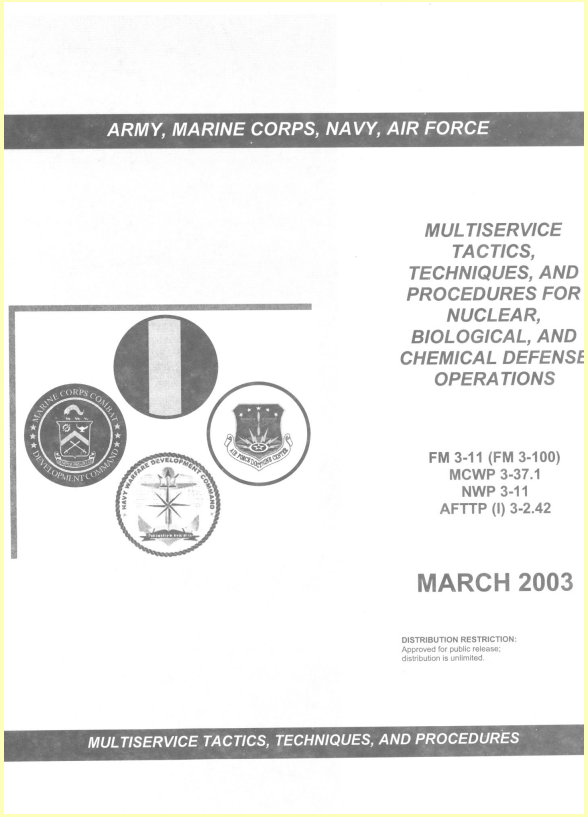
JP 3-11 Joint Doctrine for NBC Environments


Joint Publication 3-11
Joint Doctrine for Operations in Nuclear, Biological, and Chemical (NBC) Environments
11 July 2000

- Strategic Context
- MOOTW
- Threat Based on Adversary/Objective
- Includes NBC-E and TIMs
- Support Conflict Termination And Post Conflict
- Rear Area Operations
- Health Service Support

Current Status: Approved Version 11 JULY 2000

FM 3-11
NBC Defense Operations

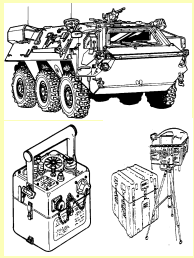

ARMY, MARINE CORPS, NAVY, AIR FORCE
MULTISERVICE TACTICS, TECHNIQUES, AND PROCEDURES FOR NUCLEAR, BIOLOGICAL, AND CHEMICAL DEFENSE OPERATIONS
FM 3-11 (FM 3-100)
MCWP 3-37.1
NWP 3-11
AFTTP (I) 3-2.42
MARCH 2003
DISTRIBUTION RESTRICTION:
Approved for public release; distribution is unlimited.
MULTISERVICE TACTICS, TECHNIQUES, AND PROCEDURES

- ☑ NBC Defense Challenges
- ☑ NBC Defense C2
- ☑ Planning
- ☑ Peacetime Preparedness & Transition
- ☑ Sustained Operations
- ☑ Supporting Conflict Termination & Postconflict
- ☑ Rear Area Operations
- ☑ Health Service Support
- ☑ Military Operations Other Than War

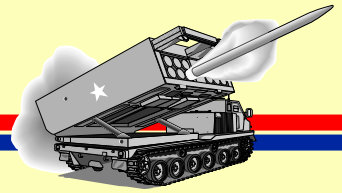
Current Status:
Approved Version
Posted to RDL
MAR 03

FM 3-11.3
NBC Contamination Avoidance

- ☑ FM 3-11.3 - MS Tactics, Techniques and Procedures for NBC Contamination Avoidance
- ☑ Define ATP 45 vs Modeling Procedures
- ☑ Current Procedures for Vulnerability Analysis
- ☑ NBC Warning and Reporting System
- ☑ Bio Hazard Prediction And Release Other Than Attack (ROTA)



Current Status:
Approved Version
Nov 92, C1 Sep 94
FY 04
1st Priority



FM 3-11.4
NBC Protection

Current Status:
Approved Version
Posted at RDL
June 2003

- ☑ **Summary Of Protective Equipment Available**
- ☑ **MOPP Analysis (MOPP Levels)**
- ☑ **Separate Sections For:**
  - **Nuclear Protection**
  - **Biological Protection**
  - **Chemical Protection**
- ☑ **Collective Protection**

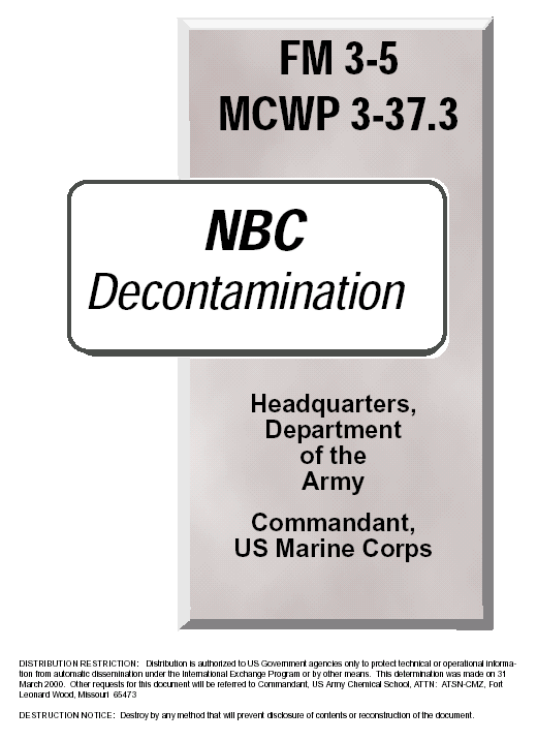
FM 3-11.34
NBC Fixed Site Protection

- Fixed Site Vulnerability
- NBC Defense Responsibilities And Execution
- Fixed Site NBC Risk Assessment

Current Status:
Approved Version
Sep 00
Planned Revision: FY 05

FM 3-11.5

NBC Decontamination


FM 3-5
MCWP 3-37.3
NBC
Decontamination
Headquarters, Department of the Army
Commandant, US Marine Corps
DISTRIBUTION RESTRICTION: Distribution is authorized to US Government agencies only to protect technical or operational information from automatic dissemination under the International Exchange Program or by other means. This determination was made on 31 March 2000. Other requests for this document will be referred to Commandant, US Army Chemical School, ATTN: ATSN-CMZ, Fort Leonard Wood, Missouri 65473
DESTRUCTION NOTICE: Destroy by any method that will prevent disclosure of contents or reconstruction of the document.

- ☑ Decon Principles
- ☑ Levels of Decon
- ☑ Special Decon Method
- ☑ Reconstitution Criteria
- ☑ Heat Injury & Water Consumption Tables

Current Status:
Revision in FY 04
PD Staffing

FM 3-11.6
Field Behavior of NBC Agents

- ☑ How Weather and Terrain Influence NBC Agents and Smoke
- ☑ Revising based on USA Toxicology Study
- ☑ Weather and Terrain Aspects for Chem/Bio will go into Appropriate Manual

Most Recent Version
3 Nov 86
Planned Revision:
FY 04

FM 3-11.7
NBC Field Handbook

- ☑ Quick Reference for NBC Information
- ☑ Warning & Reporting System
- ☑ Protection
  - – Chemical
  - – Nuclear
  - – Biological
- ☑ Decontamination
- ☑ Smoke

Approved Version

29 SEP 94

CGSC 05

FM 3-11.9

CB Agents and Compounds

- ☑ Source For Technical Information on CB Agents
- ☑ Provides Technical Details:

– FULL CHEMICAL NAME	-- FLASHPOINT
– STRUCTURAL FORMULA	-- STABILITY
– MOLECULAR FORMULA	-- DECOMPOSITION PRODUCT
– PHYSICAL STATE	-- STORAGE CO
– ODOR	-- IC50
– VAPOR DENSITY	-- THRESHOLD E
– BOILING POINT	-- RATE OF DETOXIFICATION
– FREEZING POINT	-- RATE OF ACT
– VOLATILITY	-- PROTECTION REQUIRED
– VAPOR PRESSURE	-- DECONTAMINATION
– SOLUBILITY	-- PERSISTENCY
– RATE OF HYDROLYSIS	-- USE

- ☑ Revising:
  - – ECBC to Determine Data Availability
  - – Classified Annex
  - – Rewrite As A Multi-Service Manual

Current Status:
Approved Version
12 Dec 90
Signature Draft MAR 04

FM 3-11.11
Flame, Riot Control, and Herbicide Operations

- ☑ **Policy**
  - **Wartime:**
    - » **RCA/Herbicides: NO First Use**
    - » **Flame: NO Unnecessary Suffering**
  - **Peactime:**
    - » **RCA-Civil Disturbance and Training**
    - » **Herbicides - On-Base Vegetation Control CONTROL**
- ☑ **Part One: Flame Operations**
- ☑ **Part Two: RCA Operations**
- ☑ **Part Three: Herbicide Operations**
- ☑ **NO CHANGE TO MANUAL AT THIS TIME**

Current Status:
Approved Version
19 Aug 96

FM 3-11.14
NBC Vulnerability Analysis

- ☑ Chemical Staff IPB Process
- ☑ Vulnerability Analysis
  - NBC Agents
  - Toxic Industrial Chemicals
  - Release Other Than Attack
- ☑ Vulnerability Reduction Measures
- ☑ Revised As Multi-service Manual, FY03

Current Status:
Approved Version
12 NOV 97
FCD SEP 04

FM 3-11.19
NBC Reconnaissance

- ☑ FM 3-11.19 - NBC Reconnaissance:
  - Environment
  - Principles of NBC Defense
  - Organization Capabilities and Limitations
  - Support of Full Spectrum Obscurants
  - MDMP
- ☑ RECON Techniques:
  - Mounted and Dismounted Recon Procedures
  - Standoff Detection
  - Sampling
  - Chain of Custody (Standards)
- ☑ SBCT Capabilities

Current Status:
Approved Version
19 Nov 93
Under Revision: FY 01
Final NOV 03

FM 3-11.21, MS TTP for NBC Aspects Of Consequence Management

- ✓ **Supports Stability and Support Operations**
- ✓ **Supports Consequence Management**
- ✓ **Geared toward Chem Units and NBC staffs.**
- ✓ **T**

Possible missions:

- ★ Chemical Accident/Incident Response and Assistance
- ★ Response to terrorist incidents
- ★ Industrial NBC accidents
- ★ Release Other Than Attack
- ★ NBC Hazard reconnaissance, monitoring, and control
- ★ Clean-up and decon assistance

Challenge:
Evolving Chemical Corps Role

Current Status:
Approved Version
JUL 01

FM 3-11.50
Smoke Operations

- ☑ Reference for All Smoke Operations
- ☑ Applications:
  - – Obscuring Smoke
  - – Screening
    - » Haze
    - » Blanket
    - » Curtain
  - – Protecting
  - – Marking
- ☑ C1 Provides Guidance on IR Smoke Operations (M56 And M58 Systems)

Approved Version

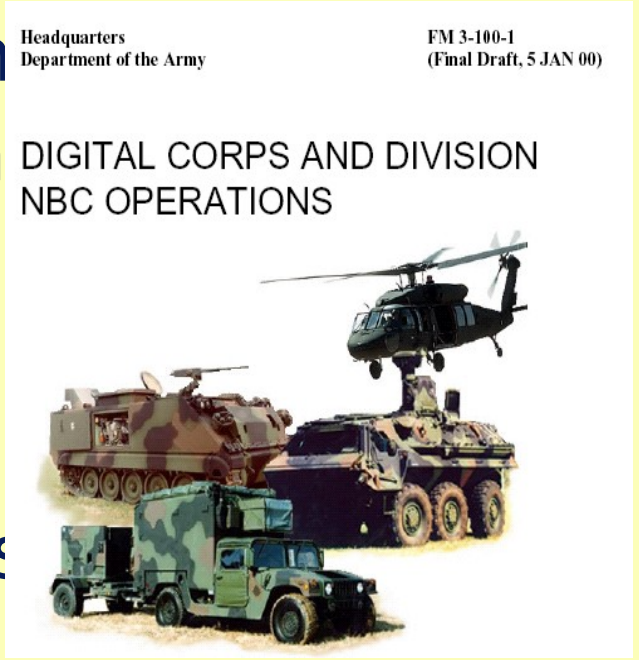
4 Dec 90 , C 1 (Sep 96)

Planned revision

Using CGSC 04

FM 3-11.85
Digital Corps & Division

- ☑ Future Force NBC Defen
- ☑ NBC Defense Operation
- ☑ Chemical Staffs
- ☑ Command & Control
- ☑ NBC & Smoke Support
- ☑ Sustainment Operations

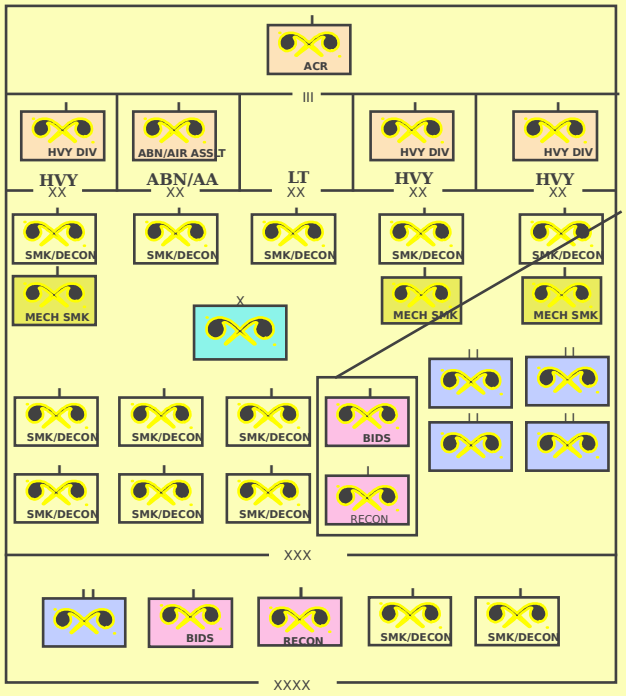


- ☑ CURRENT STATUS: TBD

First Draft
4ID Review

FM 3-11.100

Chemical Staffs and Units



- ☑ Reference for Chemical Units:
  - Brigade
  - Battalion
  - Company
  - Service Organizations
- ☑ And Staffs:
  - Theater Army
  - Corps
  - Corps Support Command
  - Division
  - Brigade
  - Battalion

Current Status:
Approved Version
19 Nov 93
First Draft FY03

FM 3-101-4 + FM 3-101-6 = FM 3-11.86
Multi-Service TTP for Biological Surveillance

- ✓ Potentially deters enemy's use of biological warfare
- ✓ Significantly reduces vulnerability of US Forces

- ☑ Biological Surveillance Capabilities (BIDS/JBPDS/DFU)
- ☑ Biological Defense Planning, Preparation and Execution
- ☑ Information Management
- ☑ Biological Defense Operations
- ☑ Logistics
- ☑ Data Collection and Analysis

Current Status:
CRC NLT
DEC 03
TBP 2 QTR/FY04

Challenges

- ✓ New Capability – Limited and Growing Operational Experience
- ✓ Education of Leaders at all Levels
- ✓ Employment for large scale operations -- Few systems spread thin

FM 3-11.XX CBRN Responders Operation Handbook

- ☑ **Contract to draft manual awarded**

Current Status: Performance Work Statement OCT 03

Doctrinal Challenges

- ☑ Joint Doctrine Development – Services and MOUs
- ☑ Army Transformation Strategy
- ☑ Biological
  - – Developing BIO Defense Doctrine for Future Systems
- ☑ Keeping up with new systems
- ☑ Draft FM: FM 3-11.3, FM 3-11.9 , FM 3-11.19, FM 3-1.14, FM 3-11.50, FM 3-11.86, FM 3-11.100
- ☑ Digital Force / Future Force
- ☑ WMD – CST Handbook/FM to include IST/RRT Missions

Protect
the
Force
Questions?